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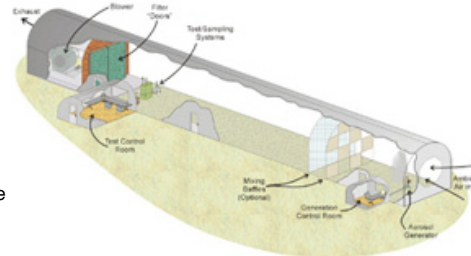
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CBIAC Develops Ambient Breeze Tunnel for Biodefense Testing at Dugway Proving Ground

In late 2000, the Program Manager – Joint Biological Point Detection System (PM-JBPDS) funded development of a cost-effective methodology for testing full-scale biological agent detection systems in a “field” environment.

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The Smart Building Program – A CBIAC Success Story



The Smart Building Program is a technical area task (TAT) under the CBIAC. The Defense Threat Reduction Agency (DTRA) initiated this unique technology development and demonstration program in November 1999. The Smart Building Program comprehensive chemical, biological, and radiological (CBR) building protection system included such components as extensive building modifications, collective protection, CBR detection, decontamination, integrated control system, and physical security. The program focused on the utilization of commercial-off-the-shelf equipment, since the aggressive program schedule did not allow for the inclusion of extensive research and development efforts or unproven technology.

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The Smart Building Program – A CBIAC Success Story (continued)

The specific objectives of the program were as follows:

- Design and develop a comprehensive CBR protection system that was automated, modular, and transportable.
- Integrate the system into a facility housing the Utah Olympic Public Safety Command and various Federal agencies supporting the 2002 Winter Olympics in Salt Lake City, Utah.
- Document the design, fabrication, installation, operations, and lessons learned.

The building selected, Social Hall Plaza, housed the Utah Olympic Public Safety Command (UOPSC) Joint Operations Center (JOC), which coordinated the activities of Federal, state, and local government elements, including FBI, FAA, FEMA, USSS, ATF, fire and police departments, EMS, and HAZMAT teams. The Social Hall Plaza building is shown below.



The Smart Building Program implementation in Salt Lake City, Utah was a first generation system. It was initially intended entirely as a technology demonstration, but the events of September 11, 2001 led to a decision to place more emphasis on maintaining its operational functionality throughout the Winter Olympics. The Olympics was a success by every measure, as was the Smart Building Program. John Ashcroft, the Attorney General, said that the Smart Building was a "... basis for other events to use as a model." Tom Ridge, Secretary of Homeland Security (then Director of Homeland Security), said that the Smart Building was the "... model for the nation." A Smart Building Program final report "cookbook" is currently being developed and will be available for other government agencies to review and utilize for future programs.

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CBIAC Develops Ambient Breeze Tunnel for Biodefense Testing at Dugway Proving Ground (continued)

Battelle developed, built, and demonstrated the first Ambient Breeze Tunnel (ABT) at their West Jefferson, Ohio site, and it has proven to be a very significant advancement in biodefense detection system testing methodology. In mid 2001, the PM-JBPDS tasked the CBIAC, to build a second ABT at Dugway Proving Ground (DPG), Utah, to assess the new ABT's performance characteristic, to train DPG staff to use the ABT, to provide support during JBPDS testing, to establish additional protocols for testing with additional BW simulants, and to document the ABT's design and test results. The DPG ABT was dedicated on August 21, 2001, and has been remarkably successful.

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